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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,381		01/26/2004	Li-Ning You	USP2345C-DRSH	2541
30265	7590	05/04/2005	•	EXAMINER	
DAVID	AND R	AYMOND PATEN	VY, H	VY, HUNG T	
1050 OAKDALE LANE ARCADIA, CA 91006			ART UNIT	PAPER NUMBER	
TIRCTIDI	THE TIME, OIL THOU			2821	
				DATE MAILED: 05/04/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Action Summany	10/765,381	YOU ET AL.					
Office Action Summary	Examiner	Art Unit					
	Hung T. Vy	2821					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)⊠ Responsive to communication(s) filed on the pr	eliminary amendment filed on 7/2	<u>22/</u> .					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3) Since this application is in condition for allowan	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 22-44 is/are pending in the application	i <b>.</b>						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>22-44</u> is/are rejected.	☑ Claim(s) <u>22-44</u> is/are rejected.						
7) Claim(s) is/are objected to.		,					
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)	·						
1) Notice of References Cited (PTO-892)	4) Interview Summary (	PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Dat 5) Notice of Informal Pa 6) Other:	te					

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## DETAILED ACTION Specification

1. The specification has been checked to the extent necessary to determine the presence of possible minor errors. However, the applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

## Claim Rejections - 35 U.S.C. § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth insection 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 22-44 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Brown, US. Pub No. 2005/0063441 in view of Scott et al., U.S. Patent No. 6,567,435 and further in view of Segre et al., U.S. Patent No. 3,963,347.

Claims 22, and 25, Brown discloses a laser, comprising a tubular laser 19 casing having a first opening end and a second opening end; a heat sink sealedly mounted at said first opening end of said laser casing, a semiconductor chip 12 supported by said heat sink for emitting a pumping radiation (See paragraph 0041), an optical resonant cavity supported within said laser casing 19, including a lasing medium Nd:YVO<sub>4</sub> (See fig. 11) to optically communicate with said semiconductor chip 12 for a light amplification of fundamental frequency (fig. 2 or 11), and an intracavity frequency doubler KTP/KTA OPO to optically communicate with said lasing medium for frequency doubling of said fundamental frequency (fig. 11 and paragraph 0040), wherein an input

facet HR is formed at said lasing medium for said pumping radiation entering thereinto, an output facet HR is formed at said intracavity frequency doubler for said frequency-double beam exiting therefrom (see fig. 2 or fig. 11), and a photodiode (see paragraph 0050), but Brown does not disclose an IR blocking filter inclined at second opening end of laser casing. However, Scott et al. disclose window inclined 42 so the light reflects a portion to the photodiode 37 (See fig. 4-5) and Segre et al. disclose the IR blocking filter inclined and sealed mounted at said second opening (see fig. 3 and column 8, line 7-34). It would have been obvious at the time the invention was made to a person having ordinary skill in the art to modify Brown to have IR blocking filter inclined window as taught by Scott et al. and Segre et al. The motivation for doing so would have been to provide IR blocking filter inclined window in order to provide an excellent surface to reflect a portion of the optical beam back to the photodetector (See column 2, line 55-60 in Scott's invention) and remove the unwanted IR rays while providing excellent transmission for green wavelength.

Claims 23-24, 30-32, and 36-39, Brown discloses input facet of said lasing medium is coated with a coating having a high transmissivity at a wavelength of 808 nm and a high reflectance at wavelength of 1064 nm and 532nm while said output facet of said intracavity frequency doubler is coated with a coating having a high transmissivity at a wavelength of 532 nm and high reflectance at a wavelength of 1064 nm (See fig. 2), doubler is KTP, Nd:YVO<sub>4</sub> (See fig. 12).

Claims 27-29, 33-35, and 40-42, Brown discloses focusing device (See paragraph 0065).

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Claim 43, Brown discloses Q-switch (See paragraph 0007).

· Claim 44, Brown discloses single mode device (See paragraph 0004).

## Conclusion

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3. When responding to the office action, Applicants are advised to provide the examiner with the line numbers and page numbers in the application and/or references cited to assist the examiner to locate the appropriate paragraphs.

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Vy whose telephone number is (571) 272-1954. The examiner can normally be reached on Monday-Friday 8:30 am - 5:30pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (571) 272-1834. The fax numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 308-7722 for After Final communications.

Information regarding the status of an application may be obtained from the patent Application Information Retrieval (PAIR) system. Status information for published application may be obtained from either private Pair or Public Pair. Status information for unpublished applications is available through Private Pair only. For more information about the PAIR system, see <a href="http://pair-direct.uspto.gov">http://pair-direct.uspto.gov</a>. Should you have question on access to the Private PAIR system, contact the Electronic Business Center (EBC) at

866-217-9197 (toll-free).

Hung T. Vy Art Unit 2821 April 18, 2005.

Supervisory Patent Examiner Technology Center 2800